

10/089019

Rec'd PCT/PTO 25 MAR 2002

Sheet 1 of 1

Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET NO. GM50068	INTERNATIONAL APPLICATION NO. PCT/US00/29451
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use several sheets if necessary)</i>		APPLICANT DeWolf, <i>et al.</i>	
		INTERNATIONAL FILING DATE 26 October 2000	GROUP Unknown 1651

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
RL	AA	5,539,132	07/23/96	Royer, <i>et al.</i>	549	545	
	AB	5,614,551	03/25/97	Dick, <i>et al.</i>	514	454	
	AC	5,759,837	06/02/98	Kuhajda, <i>et al.</i>	435	193	

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes   No	
RL	AD	WO 01/48248	12/20/00	PCT				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AE	Roujeinkova, <i>et al.</i> , "Inhibitor Binding Studies on Enoyl Reductase Reveal Conformational Changes Related to Substrate Recognition", <i>The Journal of Biological Chemistry</i> , 274(43): 30811-30817 (1999).
	AF	Ward, <i>et al.</i> , "Kinetic and Structural Characteristics of the Inhibition of Enoyl (Acyl Carrier Protein) Reductase by Triclosan", <i>Biochemistry</i> , 38: 12514-12525 (1999).
RL	AG	Rock, <i>et al.</i> , "Preparative Enzymatic Synthesis and Hydrophobic Chromatography of Acyl-Acyl Carrier Protein", <i>The Journal of Biological Chemistry</i> , 254(15): 7123-7128 (1979).
RL	AH	Broadwater, <i>et al.</i> , "Spinach Holo-Acyl Carrier Protein: Overproduction and Phosphopantetheinylation in <i>Escherichia coli</i> BL21 (DE3), <i>in Vitro</i> Acylation, and Enzymatic Desaturation of Histidine-Tagged Isoform I", <i>Protein Expression and Purification</i> , 15: 314-326 (1999).
RL	AI	Edwards, <i>et al.</i> , "Cloning of the <i>fabF</i> gene in an expression vector and <i>in vitro</i> characterization of recombinant <i>fabF</i> and <i>fabB</i> encoded enzymes from <i>Escherichia coli</i> ", <i>FEBS Letters</i> , 402: 62-66 (1997).
RL	AJ	Rock, <i>et al.</i> , "Acyl Carrier Protein from <i>Escherichia coli</i> ", <i>Methods in Enzymology</i> , 71: 341-351 (1981).
RL	AK	Lambalot, <i>et al.</i> , "Cloning, Overproduction, and Characterization of the <i>Escherichia coli</i> Holo-acyl Carrier Protein Synthase", <i>The Journal of Biological Chemistry</i> , 270(42): 24658-24661 (1995).
EXAMINER RL/TOMER		DATE CONSIDERED 10/6/04
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

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of

5

**Complete if Known**

Application Number

10/089,019

Filing Date

March 25, 2002

First Named Inventor

Walter E. DeWolf et al.

Art Unit

1645 / 651

Examiner Name

Not yet known

Attorney Docket Number

IPT-062.01

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
RG	AA	US- 5,965,402	10.12.99	Black et al.	
	AB	US- 6,228,619	05.08.01	Foster et al.	
	AC	US- 6,274,376	08.14.01	Black et al.	
	AD	US- 6,380,370	04.30.02	Doucette-Stamm et al.	
	AE	US- 6,403,337	06.11.02	Bailey et al.	
	AF	US- 6,432,670	08.13.02	Payne et al.	
	AG	US- US 2002/0076766	06.20.02	Black et al.	
	AH	US- 6,593,114	07.15.03	Kunsch et al.	
	AI	US- 6,613,553	09.02.03	Rock et al.	
		US-			
		US-			

**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
RG	AJ	DE 28 20 777	12.01.77	GERMAN		
	AK	JP 10-174590	06.30.98	JAPANESE		
	AL	EP 0 826 774 A2	04.03.98			
	AM	EP 0 78 6519 A2	07.30.97			
	AN	WO 97/30070	08.21.97			
	AO	WO 97/30149	08.21.97			
	AP	WO 00/70017	11.23.00			
	AQ	WO 01/30988	05.03.01			
	AR	WO 98/24475	06.11.98			
	AS	WO 02/31128	04.18.02			
	AT	WO 01/49721	07.12.01			
	AU	WO 01/70995	09.27.01			
	AV	WO 98/18931	05.07.98			
	AW	WO 98/06734	02.19.98			
V	AX	WO 98/26072	06.18.98			

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R. G. Towner

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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
				<b>Application Number</b>	10/089,019
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Filing Date</b>	March 25, 2002
				<b>First Named Inventor</b>	Walter E. DeWolf et al.
				<b>Art Unit</b>	1645 / 651
				<b>Examiner Name</b>	Not yet known
				<b>Attorney Docket Number</b>	IPT-062.01
Sheet	2	of	5		

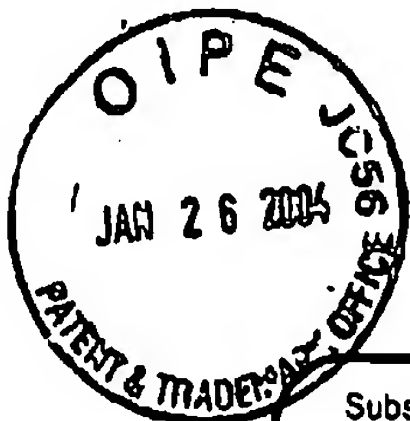
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
RG	AY	BHARGAVA ET AL., "Triclosan: Applications and Safety," American Journal of Infection Control, 24:209-218 (1998)	
	AZ	ROCK ET AL., "Lipid Metabolism in Prokaryotes," Biochemistry of Lipids, Lipoproteins and Membranes, Elsevier Publishing Company Amsterdam, 35-74 (1998)	
	BA	ROCK ET AL., "Escherichia coli as a model for the regulation of dissociable (type II) fatty acid biosynthesis," Biochimica et Biophysica Acta, 1302:1-16 (1998)	
	BB	HEATH ET AL., "Mechanism of Triclosan Inhibition of Bacterial Fatty Acid Synthesis," The Journal of Biological Chemistry, 274(16):11110-11114 (1999)	
	BC	GADDA ET AL., "Substrate Specificity of a Nitroalkane-Oxidizing Enzyme," Archives of Biochemistry and Biophysics, 363(2):309-313 (1999)	
	BD	McMURRAY ET AL., "Triclosan targets lipid synthesis," Nature, 394:531-532 (1998)	
	BE	ROSS ET AL., "Molecular Cloning and Analysis of the Gene Encoding the NADH Oxidase from Streptococcus faecalis 10C1," Journal of Molecular Biology, 227:658-671 (1992)	
	BF	BRADFORD, MARION, "A Rapid and Sensitive Method for the Quantitation of Microgram Quantities of Protein Utilizing the Principle of Protein-Dye Binding," Analytical Biochemistry, 72:248-254 (1976)	
	BG	TCHORZEWSKI ET AL., "Unique primary structure of 2-nitropropane dioxygenase from Hansenula mrakii," European Journal of Biochemistry, 228:841-846 (1994)	
	BH	KOMUNIECKI ET AL., "Electron-transfer flavoprotein from anaerobic Ascaris suum mitochondria and its role in NADH-dependent 2-methyl branched-chain enoyl-CoA reduction," Biochimica et Biophysica Acta, 975:127-131 (1989)	
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	BJ	GIBSON ET AL., "Contribution of NADH Oxidase to Aerobic Metabolism of Streptococcus pyogenes," Journal of Bacteriology, 182(2):448-455 (2000)	
	BK	BOYNTON ET AL., "Cloning, Sequencing, and Expression of Clustered Genes Encoding $\beta$ -Hydroxybutyryl-Coenzyme A (CoA) Dehydrogenase, Crotonase, and Butyryl-CoA Dehydrogenase from Clostridium acetobutylicum ATCC 824," Journal of Bacteriology, 178(11):3015-3024 (1996)	

Examiner Signature	RGITOMER	Date Considered	10/6/04
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<b>Substitute for form 1449B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/089,019		
		Filing Date	March 25, 2002		
		First Named Inventor	Walter E. DeWolf et al.		
		Art Unit	1645 / 1651		
		Examiner Name	Not yet known		
Sheet	3	of	5	Attorney Docket Number	IPT-062.01

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
RG	BL ✓	HEASLEY ET AL., "Kinetic Mechanism and Substrate Specificity of Nitroalkane Oxidase," Biochemical and Biophysical Research Communication, 225:6-10 (1996)	
	BM ✓	HAVARSTEIN ET AL., "An unmodified heptadecapeptide pheromone induces competence for genetic transformation in Streptococcus pneumoniae," Proceedings of the National Academy of Science USA, 92:11140-11144 (1995)	
	BN ✓	DEIZ-GONZALEZ ET AL., "NAD-Independent Lactate and Butyryl-CoA Dehydrogenases of Clostridium acetobutylicum P262," Current Microbiology, 34:162-168 (1997)	
	BO ✓	SLATER-RADOSTI ET AL., "Biochemical and genetic characterization of the action of triclosan on Staphylococcus aureus," Journal of antimicrobial Chemotherapy, 48:1-6 (2001)	
	BP ✓	HEATH ET AL., "A triclosan-resistant bacterial enzyme," Nature, 406:145-146 (2000)	
	BQ ✓	HEATH ET AL., "Broad Spectrum Antimicrobial Biocides Target the FabI Component of Fatty Acid Synthesis," The Journal of Biological Chemistry, 273(46):30316-30320 (1998)	
	BR ✓	SAITO ET AL., "Genetic Evidence that Phosphatidylserine Synthase II Catalyzes the Conversion of Phosphatidylethanolamine to Phosphatidylserine in Chinese Hamster Ovary Cells," The Journal of Biological Chemistry, 273(27):17199-17205 (1998)	
	BS ✓	BERGLER ET AL., "Protein EnvM is the NADH-dependent Enoyl-ACP Reductase (FabI) of Escherichia coli," The Journal of Biological Chemistry, 269(8):5493-5496 (1994)	
	BT ✓	DURAN ET AL., "Characterization of cDNA Clones for the 2-Methyl Branched-chain Enoyl-CoA Reductase," The Journal of Biological Chemistry, 268(30):22391-22396 (1993)	
	BU ✓	VOLKMAN ET AL., "Biosynthesis of D-Alanyl-Lipoteichoic Acid: The Tertiary Structure of apo-D-Alanyl Carrier Protein," Biochemistry, 40:7964-7972 (2001)	
	BV ✓	PARKH ET AL., "Roles of Tyrosine 158 and Lysine 165 in the Catalytic Mechanism of InhA, the Enoyl-ACP Reductase from Mycobacterium tuberculosis," Biochemistry, 38:13623-13634 (1999)	
	BW ✓	ROUJEINIKOVA ET AL., "Crystallographic Analysis of Triclosan Bound to Enoyl Reductase," Journal of Molecular Biology, 294:527-535 (1999)	
✓	BX ✓	HEATH ET AL., "Inhibition of the Staphylococcus aureus NADPH-dependent Enoyl-Acyl Carrier Protein Reductase by Triclosan and Hexachlorophene," The Journal of Biological Chemistry, 275(7):4654-4659 (2000)	

Examiner Signature	RG/TOMER	Date Considered	10/6/04
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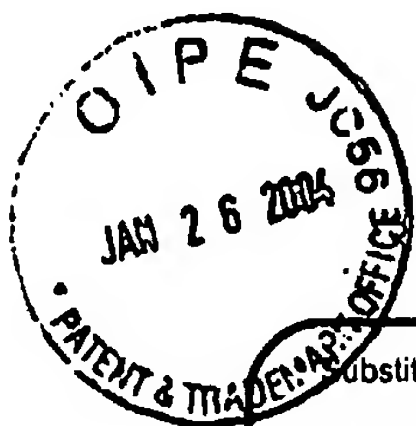
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		Application Number	10/089.019		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Filing Date	March 25, 2002		
		First Named Inventor	Walter E. DeWolf et al.		
		Art Unit	1645/651		
		Examiner Name	Not yet known		
Sheet	4	of	5	Attorney Docket Number	IPT-062.01

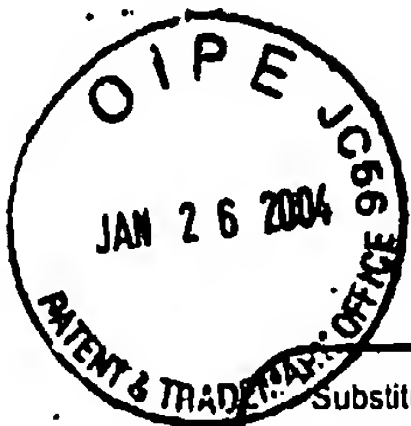
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
RG	BY	HEATH ET AL., "Inhibition of $\beta$ -Ketoacyl-Acyl Carrier Protein Synthase III (FabH) by Acyl-Acyl Carrier Protein in Escherichia coli," The Journal of Biological Chemistry, 271(18):10998-11000 (1996)	
	BZ	HEATH ET AL., "Roles of the FabA and FabZ $\beta$ -Hydroxyacyl-Acyl Carrier Protein Dehydratases in Escherichia coli Fatty Acid Biosynthesis," The Journal of Biological Chemistry, 271(44):27795-27801 (1996)	
	CA	HEATH ET AL., "The Enoyl-[acyl-carrier-protein] Reductases FabI and FabL from Bacillus subtilis," The Journal of Biological Chemistry, 275(51):40128-40133 (2000)	
	CB	HEATH ET AL., "Regulation of Fatty Acid Elongation and Initiation by Acyl-Acyl Carrier Protein in Escherichia coli," The Journal of Biological Chemistry, 271(4):1833-1836 (1996)	
	CC	BUNZOW ET AL., "Cloning and expression of a rat D <sub>2</sub> dopamine receptor cDNA," Nature, 336:783-787 (1988)	
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	CF	EGAN ET AL., "Conditional mutations affecting the cell envelope of Escherichia coli K-12," Genetic Research, 21:139-152 (1973)	
	CG	BERGLER ET AL., "Sequences of the envM gene and of two mutated alleles in Escherichia coli", Journal of General Microbiology (1992), 138, pp. 2093-2100.	
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	CI	EDWARDS, ET AL., "Cloning of the fabF gene in an expression vector and in vitro characterization of recombinant fabF and fabB encoded enzymes from Escherichia coli", FEBS Letters, 402:62-66 (1997).	
	CJ	GRASSBERGER ET AL., "Preparation and Antibacterial Activates of New 1,2,3-Diazaborine Derivatives and Analogues", Journal of Medicinal Chemistry, 1984. Vol. 24, No. 8, pp. 947-953.	
	CK	GRONOWITZ ET AL., "Antibacterial borazaro derivatives", Acta Pharm. Suecica 8, pp. 377-390 (1971).	

Examiner Signature	RGITOMEN	Date Considered	10/6/04
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RG	CL ✓	HEATH ET AL., "Enoyl-Acyl Carrier Protein Reductase (fabI) Plays a Determinant Role in Completing Cycles of Fatty Acid Elongation in Escherichia coli," The Journal of Biological Chemistry, 270(44):26538-26542 (1995).	
	CM ✓	LAM ET AL., "Effect of diazaborine derivative (Sa 84.474) on the virulence of Escherichia coli", Journal of Antimicrobial Chemotherapy (1987) 20, pp. 37-45.	
	CN ✓	LAMBALOT, ET AL., "Cloning, Over production, and Characterization of the Escherichia coli Holo-acyl Carrier Protein Synthase", The Journal of Biological Chemistry, Vol. 270, No. 42, pp. 24658-24661 (1995).	
	CO ✓	NGO ET AL., "Computational complexity, protein structure prediction, and the Levinthal paradox", Chapter 14 in 'The Protein Folding Problem and Tertiary Structure Prediction', Merz et al. (eds.), Birkhauser: Boston, MA, pp. 433 & 492-495.	
	CP ✓	ROCK ET AL., "Acyl Carrier Protein from Escherichia coli", Methods in Enzymology, 71:341-351 (1981).	
	CQ ✓	TURNOWSKY ET AL., "envM genes of Salmonella typhimurium and Escherichia coli", Journal of Bacteriology, Dec. 1989 pp. 6555-6565.	
	CR ✓	ANON., "Triclosan-resistant Enzyme," (17 Jul 2000) Chemical & Engineering News, 78(29):39	
	CS ✓	REVILL ET AL., "Purification of a malonyltransferase from Streptomyces coelicolor A3(2) and analysis of its genetic information," Journal of Bacteriology, July 1995, 177(14):3947-3952, see abstract	
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	CU ✓	MARRAKCHI ET AL., "Characterization of Streptococcus pneumoniae enoyl-(acyl-carrier protein) reductase (FabK), Biochem. J., 370:1055-1062 (2003)	

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.